Leif Nyholm

List of Publications by Year
in descending order

216 papers	10,269 citations	31949 53 h-index	43868 91 g-index
217 all docs	217 docs citations	217 times ranked	11370 citing authors

#	Article	IF	Citations
1	Toward Flexible Polymer and Paperâ€Based Energy Storage Devices. Advanced Materials, 2011, 23, 3751-3769.	11.1	919
2	Ultrafast All-Polymer Paper-Based Batteries. Nano Letters, 2009, 9, 3635-3639.	4.5	422
3	A Nanocellulose Polypyrrole Composite Based on Microfibrillated Cellulose from Wood. Journal of Physical Chemistry B, 2010, 114, 4178-4182.	1.2	258
4	Surface Modified Nanocellulose Fibers Yield Conducting Polymer-Based Flexible Supercapacitors with Enhanced Capacitances. ACS Nano, 2015, 9, 7563-7571.	7.3	229
5	Self-Assembled Monolayers of Cystamine and Cysteamine on Gold Studied by XPS and Voltammetry. Langmuir, 1999, 15, 6370-6378.	1.6	228
6	Self-Supported Three-Dimensional Nanoelectrodes for Microbattery Applications. Nano Letters, 2009, 9, 3230-3233.	4.5	226
7	Celluloseâ€based Supercapacitors: Material and Performance Considerations. Advanced Energy Materials, 2017, 7, 1700130.	10.2	175
8	Electrodeposited Sb and Sb/Sb2O3Nanoparticle Coatings as Anode Materials for Li-Ion Batteries. Chemistry of Materials, 2007, 19, 1170-1180.	3.2	171
9	Paperâ€Based Energyâ€Storage Devices Comprising Carbon Fiberâ€Reinforced Polypyrroleâ€Cladophora Nanocellulose Composite Electrodes. Advanced Energy Materials, 2012, 2, 445-454.	10.2	154
10	A microelectrode study of the influence of pH and solution composition on the electrochemical behaviour of polyaniline films. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 313, 271-289.	0.3	153
11	Lithium trapping in alloy forming electrodes and current collectors for lithium based batteries. Energy and Environmental Science, 2017, 10, 1350-1357.	15.6	152
12	Electrochemical techniques for lab-on-a-chip applications. Analyst, The, 2005, 130, 599.	1.7	136
13	Electroactive nanofibrillated cellulose aerogel composites with tunable structural and electrochemical properties. Journal of Materials Chemistry, 2012, 22, 19014.	6.7	136
14	Nanocellulose Modified Polyethylene Separators for Lithium Metal Batteries. Small, 2018, 14, e1704371.	5.2	130
15	End-Column Amperometric Detection in Capillary Electrophoresis:Â Influence of Separation-Related Parameters on the Observed Half-Wave Potential for Dopamine and Catechol. Analytical Chemistry, 1999, 71, 544-549.	3.2	127
16	Why Celluloseâ€Based Electrochemical Energy Storage Devices?. Advanced Materials, 2021, 33, e2000892.	11.1	125
17	Formation of Molecular Gradients on Bipolar Electrodes. Angewandte Chemie - International Edition, 2008, 47, 3034-3036.	7.2	122
18	A Novel High Specific Surface Area Conducting Paper Material Composed of Polypyrrole and Cladophora Cellulose. Journal of Physical Chemistry B, 2008, 112, 12249-12255.	1.2	120

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19	Nanocellulose coupled flexible polypyrrole@graphene oxide composite paper electrodes with high volumetric capacitance. Nanoscale, 2015, 7, 3418-3423.	2.8	117
20	Solution-processed poly(3,4-ethylenedioxythiophene) nanocomposite paper electrodes for high-capacitance flexible supercapacitors. Journal of Materials Chemistry A, 2016, 4, 1714-1722.	5.2	114
21	A simple and robust conductive graphite coating for sheathless electrospray emitters used in capillary electrophoresis/mass spectrometry. Rapid Communications in Mass Spectrometry, 2001, 15, 1997-2000.	0.7	101
22	High energy and power density TiO2 nanotube electrodes for 3D Li-ion microbatteries. Journal of Materials Chemistry A, 2013, 1, 8160.	5.2	101
23	Synthesis and characterization of multicomponent (CrNbTaTiW)C films for increased hardness and corrosion resistance. Materials and Design, 2018, 149, 51-62.	3.3	99
24	Mesoporous Cladophora cellulose separators for lithium-ion batteries. Journal of Power Sources, 2016, 321, 185-192.	4.0	98
25	Freestanding nanocellulose-composite fibre reinforced 3D polypyrrole electrodes for energy storage applications. Nanoscale, 2014, 6, 13068-13075.	2.8	91
26	Flexible freestanding Cladophora nanocellulose paper based Si anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 14109-14115.	5.2	91
27	In vitro and in vivo toxicity of rinsed and aged nanocelluloseâ€“polypyrrole composites. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2128-2138.	2.1	89
28	High areal and volumetric capacity sustainable all-polymer paper-based supercapacitors. Journal of Materials Chemistry A, 2014, 2, 16761-16769.	5.2	88
29	Direct electrodeposition of aluminium nano-rods. Electrochemistry Communications, 2008, 10, 1467-1470.	2.3	86
30	Lithium Insertion into Vanadium Oxide Nanotubes:Â Electrochemical and Structural Aspects. Chemistry of Materials, 2006, 18, 495-503.	3.2	84
31	Sandwich-structured nano/micro fiber-based separators for lithium metal batteries. Nano Energy, 2019, 55, 316-326.	8.2	84
32	On-Chip Electric Field Driven Electrochemical Detection Using a Poly(dimethylsiloxane) Microchannel with Gold Microband Electrodes. Analytical Chemistry, 2008, 80, 3622-3632.	3.2	79
33	Strategies for Mitigating Dissolution of Solid Electrolyte Interphases in Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 4855-4863.	7.2	78
34	Deposition and characterization of magnetron sputtered amorphous Crâ€“C films. Vacuum, 2012, 86, 1408-1416.	1.6	77
35	Cladophora Cellulose: Unique Biopolymer Nanofibrils for Emerging Energy, Environmental, and Life Science Applications. Accounts of Chemical Research, 2019, 52, 2232-2243.	7.6	76
36	Potential and Current Density Distributions at Electrodes Intended for Bipolar Patterning. Analytical Chemistry, 2009, 81, 453-459.	3.2	73

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37	Cycling stability and self-protective properties of a paper-based polypyrrole energy storage device. Electrochemistry Communications, 2011, 13, 869-871.	2.3	73
38	Lightweight, Thin, and Flexible Silver Nanopaper Electrodes for Highâ€Capacity Dendriteâ€Free Sodium Metal Anodes. Advanced Functional Materials, 2018, 28, 1804038.	7.8	73
39	Chronopotentiometric studies of polyaniline films. Journal of Electroanalytical Chemistry, 1992, 325, 269-284.	1.9	69
40	Haemocompatibility and ion exchange capability of nanocellulose polypyrrole membranes intended for blood purification. Journal of the Royal Society Interface, 2012, 9, 1943-1955.	1.5	69
41	Sheathless Electrospray from Polymer Microchips. Analytical Chemistry, 2003, 75, 3934-3940.	3.2	67
42	Conducting polymer paper-derived separators for lithium metal batteries. Energy Storage Materials, 2018, 13, 283-292.	9.5	64
43	Capillary electrophoresis coupled to mass spectrometry from a polymer modified poly(dimethylsiloxane) microchip with an integrated graphite electrospray tip. Analyst, The, 2005, 130, 193-199.	1.7	63
44	The Buried Carbon/Solid Electrolyte Interphase in Li-ion Batteries Studied by Hard X-ray Photoelectron Spectroscopy. Electrochimica Acta, 2014, 138, 430-436.	2.6	62
45	Efficient high active mass paper-based energy-storage devices containing free-standing additive-less polypyrroleâ€“nanocellulose electrodes. Journal of Materials Chemistry A, 2014, 2, 7711-7716.	5.2	62
46	Influence of the Type of Oxidant on Anion Exchange Properties of Fibrous Cladophora Cellulose/Polypyrrole Composites. Journal of Physical Chemistry B, 2009, 113, 426-433.	1.2	60
47	Rapid potential step charging of paper-based polypyrrole energy storage devices. Electrochimica Acta, 2012, 70, 91-97.	2.6	60
48	High-Capacity Conductive Nanocellulose Paper Sheets for Electrochemically Controlled Extraction of DNA Oligomers. PLoS ONE, 2011, 6, e29243.	1.1	58
49	Elimination of High-Voltage Field Effects in End Column Electrochemical Detection in Capillary Electrophoresis by Use of On-Chip Microband Electrodes. Analytical Chemistry, 2001, 73, 1909-1915.	3.2	57
50	Separation High Voltage Field Driven On-Chip Amperometric Detection in Capillary Electrophoresis. Analytical Chemistry, 2003, 75, 1245-1250.	3.2	55
51	Electrodeposition as a Tool for 3D Microbattery Fabrication. Electrochemical Society Interface, 2011, 20, 41-46.	0.3	55
52	Galvanostatic electrodeposition of aluminium nano-rods for Li-ion three-dimensional micro-battery current collectors. Electrochimica Acta, 2011, 56, 3203-3208.	2.6	55
53	Cooxidant-free TEMPO-mediated oxidation of highly crystalline nanocellulose in water. RSC Advances, 2014, 4, 52289-52298.	1.7	55
54	Benzenediacrylates as organic battery electrode materials: Na versus Li. RSC Advances, 2014, 4, 38004-38011.	1.7	55

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55	Molybdenum Oxide Nanosheets with Tunable Plasmonic Resonance: Aqueous Exfoliation Synthesis and Charge Storage Applications. Advanced Functional Materials, 2019, 29, 1806699.	7.8	55
56	Asymmetric supercapacitors based on carbon nanofibre and polypyrrole/nanocellulose composite electrodes. RSC Advances, 2015, 5, 16405-16413.	1.7	54
57	Potential controlled anion absorption in a novel high surface area composite of Cladophora cellulose and polypyrrole. Electrochimica Acta, 2009, 54, 3394-3401.	2.6	53
58	Thickness difference induced pore structure variations in cellulosic separators for lithium-ion batteries. Cellulose, 2017, 24, 2903-2911.	2.4	53
59	The impact of size effects on the electrochemical behaviour of Cu2O-coated Cu nanopillars for advanced Li-ion microbatteries. Journal of Materials Chemistry A, 2014, 2, 9574.	5.2	52
60	Structural Changes of Mercaptohexanol Self-Assembled Monolayers on Gold and Their Influence on Impedimetric Aptamer Sensors. Analytical Chemistry, 2019, 91, 14697-14704.	3.2	52
61	Influence of the cellulose substrate on the electrochemical properties of paper-based polypyrrole electrode materials. Journal of Materials Science, 2012, 47, 5317-5325.	1.7	51
62	Electrochemical solid-phase microextraction of anions and cations using polypyrrole coatings and an integrated three-electrode device. Analyst, The, 2002, 127, 591-597.	1.7	49
63	Bipolar electrochemistry for high-throughput corrosion screening. Electrochemistry Communications, 2013, 34, 274-277.	2.3	48
64	Redoxâ€Active Separators for Lithiumâ€Ion Batteries. Advanced Science, 2018, 5, 1700663.	5.6	48
65	Biosupercapacitors for powering oxygen sensing devices. Bioelectrochemistry, 2015, 106, 34-40.	2.4	47
66	Ion exchange and memory effects in polyaniline. Synthetic Metals, 1993, 55, 1545-1551.	2.1	45
67	Determination of selenium in freshwaters by cathodic stripping voltammetry after UV irradiation. Talanta, 1995, 42, 817-825.	2.9	45
68	Electrochemically controlled solid-phase microextraction and preconcentration using polypyrrole coated microarray electrodes in a flow system. Analyst, The, 2003, 128, 232-236.	1.7	45
69	Thin films of Cu2Sb and Cu9Sb2 as anode materials in Li-ion batteries. Electrochimica Acta, 2008, 53, 7226-7234.	2.6	45
70	Dendrite-free lithium electrode cycling via controlled nucleation in low LiPF6 concentration electrolytes. Materials Today, 2018, 21, 1010-1018.	8.3	45
71	Nanocellulose Structured Paper-Based Lithium Metal Batteries. ACS Applied Energy Materials, 2018, 1, 4341-4350.	2.5	45
72	Asymmetric and symmetric supercapacitors based on polypyrrole and activated carbon electrodes. Synthetic Metals, 2015, 203, 192-199.	2.1	44

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73	Lithiumâ€Diffusion Induced Capacity Losses in Lithiumâ€Based Batteries. Advanced Materials, 2022, 34, e2108827.	11.1	44
74	Influence of deposition temperature and amorphous carbon on microstructure and oxidation resistance of magnetron sputtered nanocomposite CrC films. Applied Surface Science, 2014, 305, 143-153.	3.1	43
75	Ligand exchange upon oxidation of a dinuclear Mn complexâ€“detection of structural changes by FT-IR spectroscopy and ESI-MS. Dalton Transactions, 2005, , 1033-1041.	1.6	42
76	Towards high throughput corrosion screening using arrays of bipolar electrodes. Journal of Electroanalytical Chemistry, 2015, 747, 77-82.	1.9	42
77	High-conductivity reduced-graphene-oxide/copper aerogel for energy storage. Nano Energy, 2019, 60, 760-767.	8.2	42
78	A Setup for the Coupling of a Thin-Layer Electrochemical Flow Cell to Electrospray Mass Spectrometry. Analytical Chemistry, 2004, 76, 2017-2024.	3.2	41
79	Corrosion resistances and passivation of powder metallurgical and conventionally cast 316L and 2205 stainless steels. Corrosion Science, 2013, 67, 268-280.	3.0	41
80	Multi-component (Al,Cr,Nb,Y,Zr)N thin films by reactive magnetron sputter deposition for increased hardness and corrosion resistance. Thin Solid Films, 2020, 693, 137685.	0.8	41
81	Electrodeposition and electrochemical characterisation of thick and thin coatings of Sb and Sb/Sb2O3 particles for Li-ion battery anodes. Electrochimica Acta, 2007, 53, 1062-1073.	2.6	39
82	Microelectrodes for anodic stripping voltammetry prepared by heat sealing thin fibres or wires in a polypropylene matrix. Analytica Chimica Acta, 1992, 257, 7-13.	2.6	38
83	Cathodic stripping voltammetry of Cu2Se at mercury electrodes. Journal of Electroanalytical Chemistry, 1994, 379, 49-61.	1.9	38
84	Identification and Characterization of Polyphenolic Antioxidants Using On-Line Liquid Chromatography, Electrochemistry, and Electrospray Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2009, 81, 8968-8977.	3.2	38
85	On the origin of the capacity fading for aluminium negative electrodes in Li-ion batteries. Journal of Power Sources, 2014, 269, 266-273.	4.0	38
86	Electrochemical elaboration of electrodes and electrolytes for 3D structured batteries. Journal of Materials Chemistry A, 2013, 1, 9281.	5.2	37
87	Microstructure and mechanical, electrical, and electrochemical properties of sputter-deposited multicomponent (TiNbZrTa)Nx coatings. Surface and Coatings Technology, 2020, 389, 125651.	2.2	37
88	In situ pH measurement of the self-oscillating Cu(II)â€“lactate system using an electropolymerised polyaniline film as a micro pH sensor. Journal of Electroanalytical Chemistry, 2003, 547, 45-52.	1.9	35
89	Pseudocapacitive polypyrroleâ€“nanocellulose composite for sugar-air enzymatic fuel cells. Electrochemistry Communications, 2015, 50, 55-59.	2.3	35
90	A comparison of the electrochemical properties of some azosalicylic acids at glassy carbon electrodes by cyclic and hydrodynamic voltammetry. Electrochimica Acta, 1999, 44, 4029-4040.	2.6	34

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91	Double-sided conductive separators for lithium-metal batteries. Energy Storage Materials, 2019, 21, 464-473.	9.5	34
92	Chromatographic behaviour of oxidised porous graphitic carbon columns. Analyst, The, 2003, 128, 844-848.	1.7	33
93	On-line coupling of a microelectrode array equipped poly(dimethylsiloxane) microchip with an integrated graphite electrospray emitter for electrospray ionisation mass spectrometry. Lab on A Chip, 2005, 5, 1008.	3.1	33
94	Breaking Down a Complex System: Interpreting PES Peak Positions for Cycled Li-Ion Battery Electrodes. Journal of Physical Chemistry C, 2017, 121, 27303-27312.	1.5	33
95	An ultramicroelectrode study of low temperature redox switching of polyaniline films in HClO4 Â· 5.5 H2O. Journal of Electroanalytical Chemistry, 1992, 332, 315-323.	1.9	32
96	On the Capacity Losses Seen for Optimized Nanoâ€Si Composite Electrodes in Liâ€Metal Halfâ€Cells. Advanced Energy Materials, 2019, 9, 1901608.	10.2	32
97	Revisiting the factors influencing gold electrodes prepared using cyclic voltammetry. Sensors and Actuators B: Chemical, 2019, 283, 146-153.	4.0	32
98	Wide pH range microelectrode study of the electrochemical behaviour of polyaniline films in buffered solutions. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 149.	1.7	31
99	On the origin of the spontaneous potential oscillations observed during galvanostatic deposition of layers of Cu and Cu2O in alkaline citrate solutions. Journal of Electroanalytical Chemistry, 2006, 594, 35-49.	1.9	31
100	The influence of electrode and separator thickness on the cell resistance of symmetric celluloseâ€“polypyrrole-based electric energy storage devices. Journal of Power Sources, 2014, 272, 468-475.	4.0	31
101	Photoelectron Spectroscopic Evidence for Overlapping Redox Reactions for SnO₂ Electrodes in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 4924-4936.	1.5	31
102	Ionic Motion in Polypyrroleâ^'Cellulose Composites: Trap Release Mechanism during Potentiostatic Reduction. Journal of Physical Chemistry B, 2009, 113, 4582-4589.	1.2	30
103	On the Evaluation of Corrosion Resistances of Amorphous Chromium-Carbon Thin-Films. Electrochimica Acta, 2014, 122, 224-233.	2.6	29
104	Electrochemical fabrication and characterization of Cu/Cu₂O multi-layered micro and nanorods in Li-ion batteries. Nanoscale, 2015, 7, 13591-13604.	2.8	29
105	Hybrid Energy Storage Devices Based on Monolithic Electrodes Containing Well-defined TiO2 Nanotube Size Gradients. Electrochimica Acta, 2015, 176, 1393-1402.	2.6	28
106	Electrochemical Detection Based on Redox Cycling Using Interdigitated Microarray Electrodes at ÂµL/min Flow Rates. Electroanalysis, 2000, 12, 255-261.	1.5	27
107	Generation of Thiolsulfinates/Thiolsulfonates by Electrooxidation of Thiols on Silicon Surfaces for Reversible Immobilization of Molecules. Langmuir, 2003, 19, 4217-4221.	1.6	27
108	On-line electrochemically controlled solid-phase extraction interfaced to electrospray and inductively coupled plasma mass spectrometry. Analyst, The, 2005, 130, 1358.	1.7	27

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109	Nanosized LiFePO₄-decorated emulsion-templated carbon foam for 3D micro batteries: a study of structure and electrochemical performance. Nanoscale, 2014, 6, 8804-8813.	2.8	27
110	Conducting Polymer Paper-Derived Mesoporous 3D N-doped Carbon Current Collectors for Na and Li Metal Anodes: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2018, 122, 23352-23363.	1.5	27
111	Anodic stripping voltammetry of copper at ex situ-formed mercury-coated carbon fibre microelectrodes in the presence of low concentrations of supportin. Analytica Chimica Acta, 1993, 273, 41-51.	2.6	26
112	Evaluations of the Stability of Sheathless Electrospray Ionization Mass Spectrometry Emitters Using Electrochemical Techniques. Analytical Chemistry, 2001, 73, 4607-4616.	3.2	26
113	Toward Solid-State 3D-Microbatteries Using Functionalized Polycarbonate-Based Polymer Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 2407-2413.	4.0	25
114	Photoelectrochemical properties of polyaniline films. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 310, 113-126.	0.3	24
115	Enhancing corrosion resistance, hardness, and crack resistance in magnetron sputtered high entropy CoCrFeMnNi coatings by adding carbon. Materials and Design, 2021, 205, 109711.	3.3	24
116	Electrocrystallization, stripping and photoelectrochemical properties of HgSe/Se films on mercury electrodes. Journal of Electroanalytical Chemistry, 1993, 347, 303-326.	1.9	23
117	Coulometric and spectroscopic investigations of the oxidation and reduction of some azosalicylic acids at glassy carbon electrodes. Electrochimica Acta, 2001, 46, 1113-1129.	2.6	23
118	Deviceless decoupled electrochemical detection of catecholamines in capillary electrophoresis using gold microband array electrodes. Electrophoresis, 2002, 23, 3678-3682.	1.3	23
119	Current oscillations during chronoamperometric and cyclic voltammetric measurements in alkaline Cu(II)-citrate solutions. Electrochimica Acta, 2008, 53, 2188-2197.	2.6	23
120	The Mechanism of Capacity Enhancement in LiFePO[sub 4] Cathodes Through Polyetheramine Coating. Journal of the Electrochemical Society, 2009, 156, A720.	1.3	23
121	Oxidation of 4-Chloroaniline Studied by On-Line Electrochemistry Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2009, 81, 5180-5187.	3.2	23
122	Degradation effects in the extraction of antioxidants from birch bark using water at elevated temperature and pressure. Analytica Chimica Acta, 2012, 716, 40-48.	2.6	23
123	A Comparative Study of the Effects of Rinsing and Aging of Polypyrrole/Nanocellulose Composites on Their Electrochemical Properties. Journal of Physical Chemistry B, 2013, 117, 3900-3910.	1.2	23
124	Bioelectrodes based on pseudocapacitive cellulose/polypyrrole composite improve performance of biofuel cell. Bioelectrochemistry, 2016, 112, 184-190.	2.4	23
125	Interference of the electrospray voltage on chromatographic separations using porous graphitic carbon columns. Journal of Mass Spectrometry, 2004, 39, 216-222.	0.7	22
126	Spatial Mapping of Elemental Distributions in Polypyrrole-Cellulose Nanofibers using Energy-Filtered Transmission Electron Microscopy. Journal of Physical Chemistry B, 2010, 114, 13644-13649.	1.2	22

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127	Cation profiling of passive films on stainless steel formed in sulphuric and acetic acid by deconvolution of angle-resolved X-ray photoelectron spectra. Applied Surface Science, 2013, 284, 700-714.	3.1	22
128	Cathodic stripping voltammetry of HgSe. Journal of Electroanalytical Chemistry, 1994, 377, 149-162.	1.9	21
129	Pulsed Galvanostatic and Potentiostatic Electrodeposition of Cu and Cu[sub 2]O Nanolayers from Alkaline Cu(II)-Citrate Solutions. Journal of the Electrochemical Society, 2008, 155, D115.	1.3	21
130	Conducting Polymer Paperâ€Based Cathodes for Highâ€Arealâ€Capacity Lithiumâ€“Organic Batteries. Energy Technology, 2015, 3, 563-569.	1.8	21
131	On the electrochemistry of tin oxide coated tin electrodes in lithium-ion batteries. Electrochimica Acta, 2015, 179, 482-494.	2.6	21
132	Stability of preplated mercury coated platinum and carbon fibre microelectrodes. Analytica Chimica Acta, 1996, 327, 211-222.	2.6	20
133	Development of an Amperometric Detector for Packed Capillary Column Supercritical Fluid Chromatography. Analytical Chemistry, 1997, 69, 439-445.	3.2	20
134	Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis. Analytica Chimica Acta, 1999, 385, 409-415.	2.6	20
135	Gold-coated fused-silica sheathless electrospray emitters based on vapor-deposited titanium adhesion layers. Rapid Communications in Mass Spectrometry, 2003, 17, 1535-1540.	0.7	20
136	The influence of the thin-layer flow cell design on the mass spectra when coupling electrochemistry to electrospray ionisation mass spectrometry. Journal of Electroanalytical Chemistry, 2006, 590, 90-99.	1.9	20
137	Flexible Freestanding MoO 3â^' x â€“Carbon Nanotubesâ€“Nanocellulose Paper Electrodes for Chargeâ€Storage Applications. ChemSusChem, 2019, 12, 5157-5163.	3.6	20
138	Polydopamine-based redox-active separators for lithium-ion batteries. Journal of Materiomics, 2019, 5, 204-213.	2.8	20
139	Strategies for Mitigating Dissolution of Solid Electrolyte Interphases in Sodiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 4905-4913.	1.6	20
140	Current Instability for Silicon Nanowire Field-Effect Sensors Operating in Electrolyte with Platinum Gate Electrodes. Electrochemical and Solid-State Letters, 2011, 14, J34.	2.2	19
141	Electrodeposition of Vanadium Oxide/Manganese Oxide Hybrid Thin Films on Nanostructured Aluminum Substrates. Journal of the Electrochemical Society, 2014, 161, D515-D521.	1.3	19
142	Overâ€Stoichiometric NbO₂ Nanoparticles for a High Energy and Power Density Lithium Microbattery. ChemNanoMat, 2017, 3, 646-655.	1.5	19
143	Oxidative and reductive amperometric detection of phenolic and nitroaromatic compounds in packed capillary column supercritical fluid chromatography. Journal of Chromatography A, 1997, 785, 121-128.	1.8	18
144	A Comparative Study of the Oxidation of 3-, 4- and 5-Aminosalicylic Acids at Glassy Carbon Electrodes. Electroanalysis, 1998, 10, 198-203.	1.5	18

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145	Sizeâ€Ðependent Electrochemical Performance of Monolithic Anatase TiO₂ Nanotube Anodes for Sodiumâ€ion Batteries. ChemElectroChem, 2018, 5, 674-684.	1.7	18
146	Firstâ€Cycle Oxidative Generation of Lithium Nucleation Sites Stabilizes Lithiumâ€Metal Electrodes. Advanced Energy Materials, 2021, 11, 2003674.	10.2	18
147	Redox switching of polyaniline films: Low temperature studies. Synthetic Metals, 1993, 55, 1515-1520.	2.1	17
148	Comparison of Î¼m and mm sized disk electrodes for end-column electrochemical detection in capillary electrophoresis. Fresenius' Journal of Analytical Chemistry, 1999, 363, 231-235.	1.5	17
149	Determination of tocopherols and vitamin A in vegetable oils using packed capillary column supercritical fluid chromatography with electrochemical detection. Journal of Separation Science, 1999, 11, 385-391.	1.0	17
150	A comparison of the electrochemical stabilities of metal, polymer and graphite coated nanospray emitters. Analyst, The, 2003, 128, 728.	1.7	17
151	Voltammetric Determination of <scp>L</scp>â€Dopa on Poly(3,4â€ethylenedioxythiophene)â€Singleâ€Walled Carbon Nanotube Composite Modified Microelectrodes. Electroanalysis, 2010, 22, 449-454.	1.5	17
152	Activation Barriers Provide Insight into the Mechanism of Self-Discharge in Polypyrrole. Journal of Physical Chemistry C, 2014, 118, 29643-29649.	1.5	17
153	Systematic Approach to the Development of Microfabricated Biosensors: Relationship between Gold Surface Pretreatment and Thiolated Molecule Binding. ACS Applied Materials & Interfaces, 2017, 9, 26610-26621.	4.0	17
154	Cellulose Separators With Integrated Carbon Nanotube Interlayers for Lithium-Sulfur Batteries: An Investigation into the Complex Interplay between Cell Components. Journal of the Electrochemical Society, 2019, 166, A3235-A3241.	1.3	17
155	Capacity Limiting Effects for Freestanding, Monolithic TiO₂ Nanotube Electrodes with High Mass Loadings. ACS Applied Energy Materials, 2020, 3, 4638-4649.	2.5	17
156	A microelectrochemical detector for use at low linear velocities in capillary column systems. Analytica Chimica Acta, 1997, 344, 77-85.	2.6	16
157	Synthesis and characterization of a ferrocene-linked bis-fullerene[60] dumbbell. Dalton Transactions, 2012, 41, 2374.	1.6	16
158	Effect of nitrogen content on microstructure and corrosion resistance of sputter-deposited multicomponent (TiNbZrTa)Nx films. Surface and Coatings Technology, 2020, 404, 126485.	2.2	16
159	Tailoring porosities and electrochemical properties of composites composed of microfibrillated cellulose and polypyrrole. RSC Advances, 2014, 4, 8489-8497.	1.7	15
160	On the electrophoretic and solâ€“gel deposition of active materials on aluminium rod current collectors for three-dimensional Li-ion micro-batteries. Thin Solid Films, 2014, 562, 63-69.	0.8	15
161	On-line deoxygenation for reductive electrochemical detection of artemisinin and dihydroartemisinin in liquid chromatography. Analyst, The, 1998, 123, 313-317.	1.7	14
162	Boosting the thermal stability of emulsion-templated polymers via sulfonation: an efficient synthetic route to hierarchically porous carbon foams. ChemistrySelect, 2016, 1, 784-792.	0.7	14

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163	Overlapping and rate controlling electrochemical reactions for tin(IV) oxide electrodes in lithium-ion batteries. Journal of Electroanalytical Chemistry, 2017, 797, 47-60.	1.9	14
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